



Original

ORDER NO. ARP1462

STEREO AMPLIFIER



- •For servicing this type, please refer to the A-X530/HE service manual (ARP1445) with the exception of this additional service manual.
- This additional service manual is applicable to the HEZ type.

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

Parts without part number cannot be supplied.

Parts marked by "@" are not always kept in stock. Their delivery time may be longer than usual or they may be unavail-

The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

For your parts Stock Control, the fast moving items are indicated with the marks $\star\star$ and \star .

* * GENERALLY MOVES FASTER THAN *

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

When ordering resistors, first convert resistance values into code form as shown in the following examples.

When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J =5%, and K = 10%).

561.....RD1/4PS 3 6 11 J 56×10^{1} 560Ω 473.....RD1/4PS 4 7 3 J 47×10^3 $47k\Omega$ 0R5......RN2H ◎ ℝ ⑤ K 0.5Ω 010......RSIP 🛈 🗓 🛈 K 1Ω

When there are 3 effective digits (such as in high precision metal film resistors). 5621.....RN1/4SR 5 6 2 1 F 562×10^{1}

The A-X530/HEZ type is the same as the A-X530/HE type with the exception of the following sections.

	Symbol & Description	Part No.		
Mark		A-X530 HE type	A-X530 HEZ type	Remarks
	AF Main assembly Power supply assembly SP OUT assembly Operating instructions (English/German/French/Italian) Operating instractions (German) Screw	AWZ1409 Non supply ARE1051	AWZ1530 Non supply Non supply ARC1064 ABA-115	

2. ELECTRICAL PARTS LIST

AF MAIN assembly (AWZ1530)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
**	IC101	M5218P
**	IC103	M5218PF
**	IC601	M5278L56(A)
**	IC301,IC302	PA0016
**	IC602	TA7291S
**	IC102	TC9163N
**	Q408	RN2203
		(DTA124ES)
		(2SA1346)
**	0407	RN1203
		(2SC3400)
**	Q405	2SA1048
~ ~ ~		(JA101)
		(2SA1115)
		(2SA933S)

Mark	Symbol & Description	Part No.	
**	Q313,Q314	2SA1145	
**		2SA968	
**	•	2SA992	
**		2SB560	
**	Q301-Q306,Q401,Q402	2SC1845	
**	Q317,Q318	2SC2238	
**	Q403,Q404	2SC2458	
^^	2.00,2.0	(JC501)	
		(2SC1740S)	
		(2SC2603)	
**	Q315,Q316	2SC2705	
**		2SD438	
**		2SD880	
∻ ^	D601	D5SB2OF	
2	D406	RD13ESB	

	•	-
3.	SCHEMATIC	DIAGRAM

	AF MAIN ASSEMBLY AWZ1530	CONTROL MAIN ASSEMBLY AWZ	:1413	
Α	TUNER (3500 H17 19 17 10/25 3 6 R137 155 160 155 160 17 17 17 17 17 17 17 1	R203 R205 B IC201(1/2) R225	7, R249 100 R249 100 R241 100 R24	10 17 (A) 5 4 (B) 6 (C) 7 (A) 8 (C) 1 11 11 127 (F) 1 127 (F) 1 128 (C) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
В	PHONO 1.50 R132 R132 R132 R132 R132 R132 R132 R132	Reh 3 R204 R206 28m R206 226 R206 R206 R206 R206 R206 R206	R228 R236 C230 R234 R236 R236 C222 R232 R230 R230 R242 R240 C228 R240 C228	(C203(2/2) 7 (p) 16 (E) 12 (E)
	PHONO RIO2 RIOS RIOS RIOS RIOS RIOS RIOS RIOS RIOS	D524 R517 R325 R513 R514 22k R516 R	1 SC VDD 42 2 2 SOB PYS 41 C503 502 1 SO2	BISND
C	TUNER OCTOB W 12 11 0 0 12 14 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S502 PYS S501 S507 R518 10h S501 S506 R520 R520 R520 R520 R520 R520 R520 R520	12 PC3 PG1 31	12 CD.D 13 CD 14 PHONO 15 TUNER 15 TUNER 15 TUNER 10 TAPE 10 T
D	DIGITAL TRANSISTOR $ \begin{array}{cccccccccccccccccccccccccccccccccc$	J12 1 2 3 4 5 5 5509 D523 D522 ST-BY ASSEMBLY	INTERNAL CIRCUIT OF IC502 IN O O OUT O ONICIPIE	OUT OS25

Vark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
*	D606	RD13ESB1		C103,C104	CKCYB331K50
*	D608,D609	RD16ESB3		C107,C108,C701,C702,C705-	CKCYB391K50
*	D319,D320,D323,D324	RD4.7EB		C712,C715,C716	
-		(HZ4.7EB)		C117,C118,C121,C122	CKCYX104M25
*	D405	RD5.6ESB		C109,C110	CQMA222J50
*	D301-D306,D309-D314,D317,	1SS131			
	D318,D321,D322,D401-D404,			C723	CQMA472K50
	D614,D615			C111,C112	CQMA822J50
			RESIS	STORS	
*	D602-D605,D610-D613	11E2 (S5566)		Symbol & Description	Part NO.
		(88888)	Mark		
ELA	YS			R361,R362 Resistor network	ACN - 139
lark	Symbol & Description	Part No.		(0.33Ωx2)	DDD4/4DM
aik	Symbol & Dosonption		^	R313-R316,R359,R360	RDR1/4PM□□□□
$\star\star$	RY401 Relay (PROTECTION)	ASR-112	<u>A</u>	R365,R366,R371,R372,R610	
**	RY601 Relay (POWER)	ASR-512	\triangle	R343-R350,R355-R358,R363,	RD1/4PMF□□□
				R364	
			\triangle	R351 - R354,R602,R604,R605	RFA1/4PS□□□
COIL	S AND TRANSFORMER		7:7	R607,R608,R620 – R622	RS1LMF
lark	Symbol & Description	Part No.		R103,R104,R131-R134,R139-	RD1/8PM□□□
		AT114044		R141,R317,R318,R339-R342,	
	L301,L302 AF Choke coil	ATH1011		R369,R370,R403-R407,R410-	
	(O.7μF)			R413,R612-R614,R618,R619	
7	T601 Power transformer	ATT1015		Other resistors	RD1/4PM□□□
	(AC110,120-127/220V,240V)			Other resistors	
`A D/	ACITORS		OTH	ERS	
/ark	Symbol & Description	Part No.	Mark	Symbol & Description	Part NO.
			$\overline{\mathbb{A}}$	Terminal 6P	AKB-117
7	C614 (0,01 \(\rho \text{F}/400V\)	ACG1002	2:3	(ADAPTER IN/OUT,TAPE1,	AKB III
	C609,C610,C613	ACG1005		•	
	(0,01 μF/150V)			REC/PLAY,TUNER,CD)	AKB-119
	C601,C602 (8200 \(\mu \)F/63V)	ACH1044		Terminal 2P (PHONO)	AKH-017
	C325-C328	CCCSL101K500		Transistor socket	ANH-UI7
			en c	NIT accombly	
	C311-C314	CCCSL150J50	SPC	OUT assembly	
	C303,C304	CCCSL221J50	COIL	0	
	C703,C704,C713,C714	CCCSL271J50	COIL	.5	
	C305-C308,C321,C322	CCCSL470J50	Mark	Symbol & Description	Part NO.
	C319,C320,C323,C324	CCCSL680J50			
				L701 – L704 AF Choke coil(1 μF)	ATH-133
	C401,C402	CEANPO10M50			
	C405	CEAS010M100	CAP	ACITORS	
	C406	CEASO10M50	Mark	Symbol & Description	Part NO.
	C101,C102,C119,C120	CEAS100M25	MIGIK	- Gymbor & Deadription	
	C612	CEAS101M10		C717-C720	CQMA103K50
				C721,C722	CQMA472K50
	C404	CEAS101M25			
	C611	CEAS102M25	RESI	STORS	
	C603,C604	CEAS102M35			n NO
	C115,C116	CEAS2R2M50	Mark	Symbol & Description	Part NO.
	C105,C106	CEAS470M10		R701,R702	RD1/4PM4R7J
	0410 0414 0400 0404	CEAS470M16		5 ., 5	
	C113,C114,C123,C124	CEAS470M16 CEAS470M25	OTH	ERS	
	C606				Dowt NA
	C403	CEAS471M6	Mark	Symbol & Description	Part NO.
	C301,C302	CEYA100M25		Terminal 8P (Speaker)	AKE-111
	C607,C608	CEYA101M25		•	AKN - 207
				Mini – Jack	AKIN-207
	C315,C316	CEYA331M16		(REMOTE CONTROL OUT)	ANI - 207

CEYA331M16 CEYA470M25 CEYA470M63

CFTXA223J50 CFTXA823J50

CKCYB182K50

Power supply assembly

Mark Symbol & Description

L3 Line filter

Part NO.

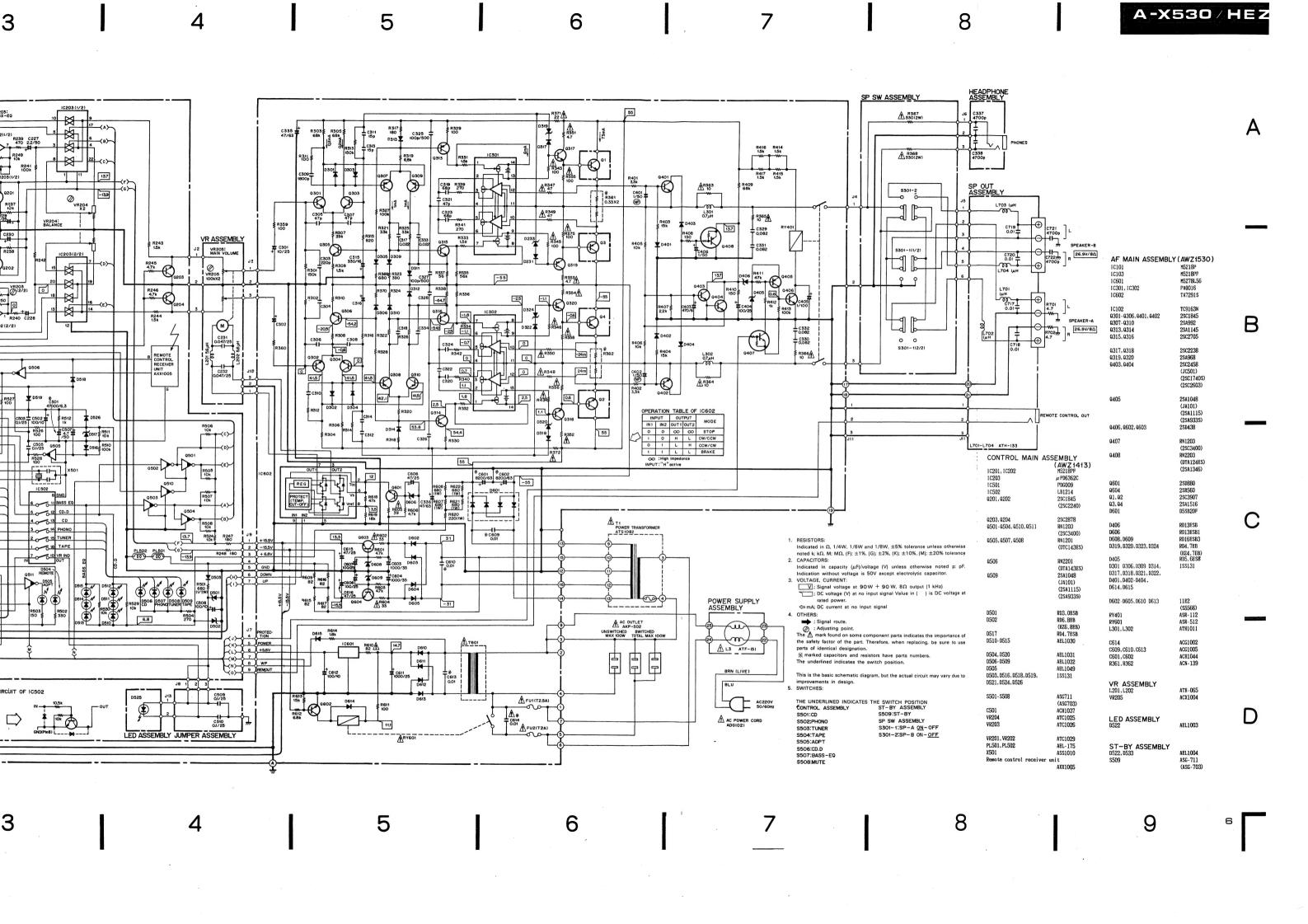
ATF-151

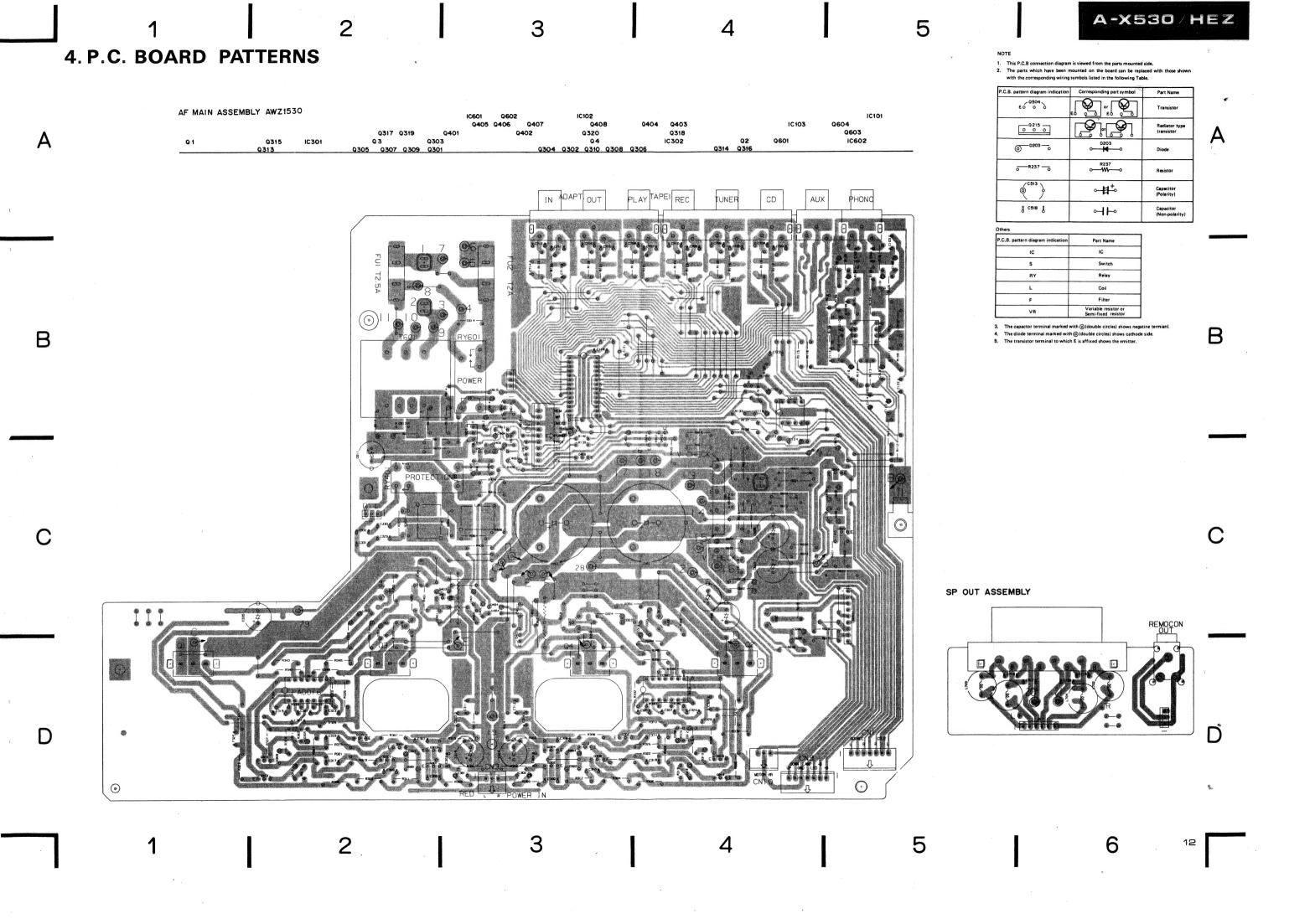
COIL

C315,C316 C615,C616 C335,C336

C309,C310

C317,C318,C333,C334 C329 – C332





4. P.C. BOARD PATTERNS

В

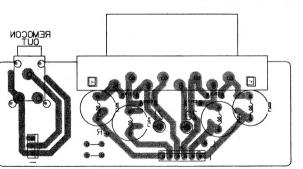
AF MAIN ASSEMBLY AWZ1530 0604 0603 IC602 Q318 IC302 0320 04 0304 0302 0310 0308 0306 0303 0307 0309 0301 Q315 IC301 Q313

This P.C.B connection diagram is viewed from the parts mounted side.
 The parts which have been mounted on the board can be replaced v with the corresponding wining symbols listed in the following Table.

Part Name	Corresponding part symbol	P.C.B. pattern diagram indication
Transistor		CO 0
Radiator type transistor	LA LA	0 0 0
Diode	0203	©_0203_0
Resistor	R237 0—-WV0	O-R237
Capacitor (Polarity)	° [‡] #•°	CSI3
Capacitor	~H~	g case g

	Others
Part Name	P.C.B. pattern diagram indication
31)I
Switch	S
Relay	YR
Coil	1
Filter	7
Variable resistor or	8V

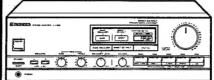
SP OUT ASSEMBLY











ORDER NO. ARP1445

STEREO AMPLIFIER



MODEL A-X530 COMES IN THREE VERSIONS DISTINGUISHED AS FOLLOWS:

Туре	Power requirement	Export destination	
HE	AC220V, 240V (switchable)*	European continent	
НВ	AC220V, 240V (switchable)*	United Kingdom	
SD	AC110V, 120–127V, 220V, 240V (switchable)	General market	

*Change the primary wiring of the power transformer.

- This service manual is applicable to the HE, HB and SD types.
- As to the HB and SD types, please refer to pages 22-23.

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A. PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

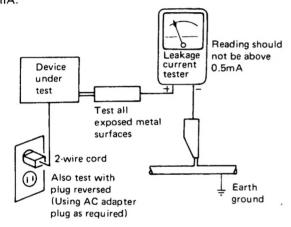
1. SAFETY INFORMATION

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

2. SPECIFICATIONS

Amplifier Section
DIN continuous power output (both channels driven)
1 kHz, 1%, 8 Ω 90 W $+$ 90 W
DIN music power (both channels driven)
1 kHz, 1%, 8 Ω
Total harmonic distortion
1 kHz, 45 W, 8 Ω
Input (sensitivity/impedance)
PHONO 2.5 mV/50 kΩ
TUNER, CD, TAPE PLAY, ADAPTOR150 mV/50 kΩ
Overload level
PHONO 1 kHz, 0.1%150 mV
Output level
TAPE REC, ADAPTOR OUT150 mV
Frequency Response
PHONO20 Hz to 20 kHz ±0.5 dB
TUNER, CD, TAPE PLAY, ADAPTOR 10 Hz to 70 kHz +1 dB
DIRECT CD 10 Hz to 100 kHz +1 dB
Tone Control
BASS ±8 dB 100 Hz
TREBLE ±8 dB 10 kHz
BASS EQUALIZER (MAX) + 10 dB 60 Hz
MUTING
Hum and Noise (IHF short circuited, A network)
PHONO72 dB
DIRECT CD INPUT102 dB
Hum and Noise (DIN, continuous power/50 mW)
PHONO 68 dB/60 dB
DIRECT CD INPUT 82 dB/62 dB

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUT-LINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, the PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

Power Supply/Miscellaneous

Power requirements
European modelAC 220 V~, 50/60 Hz
U.K., Australian modelsAC 240 V~, 50/60 Hz
Power consumption
European model450 W
U.K., Australian models450 W
AC outlets
Switched (x 2)
Unswitched (x 1) 100 W
Dimensions
14-3/16 (W) x 13-5/8 (D) x 3-2/4 (H) ir
Weight7.3 kg (16 lb 1 oz
Accessories
Remote control unit
Batteries AAA/R03
Operating instructions
Control cord
11 - Air

- Specifications and design subject to possible modification without notice due to improvements.
- Measured by Audio Spectrum Analyzer.

3. PANEL FACILITIES

● POWER switch/STANDBY (SLEEP) indicator

Press to turn power to the unit ON and STANDBY.

This indicator flashes when the accessory remote control unit is used to turn the SLEEP key. When the SLEEP key is ON, the indicator will light. (Initially it will flash slowly, then gradually become faster.)

Approx 60 minutes after the sleep timer is turned ON, the power switch will be turned STANDBY automatically.

- The POWER switch selects the transformer's secondary even in STANDBY position. The unit's circuitry will work as long as the power cord is connected to a power outlet.
- When not using the unit for a long period, disconnected the power cord.

2 PHONES jack

When using headphones, insert the plug into this jack.

3 SPEAKERS A selector switch

Use this switch to listen to the speaker systems connected to the SPEAKERS A terminals.

[ON] — Depressed position: Sound is heard from the speaker systems.

[OFF] — Released position: No sound is heard from the speaker systems. Set to this position when listening with headphones.

4 SPEAKERS B selector switch

Use this switch to listen to the speaker systems connected to the SPEAKERS B terminals.

[ON] — Depressed position: Sound is heard from the speaker systems.

[OFF] — Released position: No sound is heard from the speaker systems. Set to this position when listening with headphones.

NOTE:

When the speaker system is connected to only one speaker terminal (A or B) and both A and B selector switches are ON, there will be no sound. Turn ON only the selector to which the speaker system is connected.

5 BASS tone control

Use to adjust the low-frequency tone. The center position is the flat (normal) position. When moved to the right, low-frequency tones are emphasized; when moved to the left, low-frequency tones are de-emphasized.

NOTE:

This function does not operate when the DIRECT CD INPUT switch is in the ON position.

6 TREBLE tone control

Use to adjust the high-frequency tone.

The center position is the flat (normal) position. When moved to the right, high-frequency tones are emphasized; when moved to the left, high-frequency tones are de-emphasized.

NOTE:

This function does not operate when the DIRECT CD INPUT switch is in the ON position.

TEQUALIZER LEVEL control

When the BASS EQUALIZER switch is ON, you can control the degree of enhancement of very low frequencies below 60 Hz in variable using this control. Set this control to the desired position.

NOTE:

This function does not operate when the DIRECT CD INPUT switch is in the ON position.

8 BALANCE control

Should normally be left in the center position. Adjust balance if the sound is louder from one of the speakers. If the right side is louder, move toward the LEFT position and if the left side is louder, move toward the RIGHT position.

NOTE:

This function does not operate when the DIRECT CD INPUT switch is in the ON position.

ADPT/TAPE2 switch/indicator

Use when there is an adaptor component (graphic equalizer, etc.) or tape deck connected to the ADAPTOR/TAPE 2 terminals.

[OFF] - Indicator goes out position: When not in use.

[ON] — Indicator lights position: When using the adaptor component or listening to the tape deck.

NOTE:

When no connections are made to the ADAPTOR/TAPE 2 terminals, or when they are not in use, be sure to set this switch to the OFF position. (No sound will be heard if it is set to the ON position.)

INPUT SELECTOR switches/indicators

Use to select playback source.

[TAPE 1]—Press when listening to tape playback with a tape deck.
[TUNER] — Press when listening to AM or FM broadcasts with a

[PHONO] — Press when listening to record playback on a turn-

[CD] — Press when listening to a compact disc playback with a CD player.

A-X530

MASTER VOLUME control

Use to adjust volume level.

Move to the right to increase volume.

Move to the left to decrease volume.

P BASS EQUALIZER switch/indicator

By pressing this switch ON, the indicator will light and powerful sound reproduction will be obtained.

Use this function as desired when listening to a digital source such as a compact disc.

NOTE:

This function does not operate when the DIRECT CD INPUT switch is in the ON position.

B DIRECT CD INPUT switch/indicator

Use this switch/indicator when you do not wish to pass the output from a piece of equipment connected to the CD terminals through the various frequency adjusting circuits (BASS, TREBLE, BASS EQUALIZER, BALANCE).

[ON] — When the switch is in this position, the indicator lights and the signals input from the CD terminals are reproduced without passing through the various frequency adjusting circuits.

This results in flat, pure sound which is a more faithful reproduction of the digital source.

[OFF] — When the switch is in this position, the indicator goes out, and the signal selected by the INPUT SELECTOR switches are reproduced.

NOTE:

When this switch is ON, the signals from the source connected to the CD terminals are output from the speaker system, and also the signals from the source selected by the INPUT SELECTOR switch are output from the TAPE1 REC terminal and the ADPTOR/TAPE2 REC terminal. Consequently, if you wish to compensate the sound from the source connected to the CD terminals using recording equipment or an adaptor, press the CD of INPUT SELECTOR switch to select the source connected to the CD terminals.

MUTING (-∞) switch/indicator

Use to temporarily cut sound volume.

When depressed ON, the sound volume will be cut off $(-\overline{\infty})$. When set to OFF, the sound will return to its previous volume.

B REMOTE SENSOR/indicator

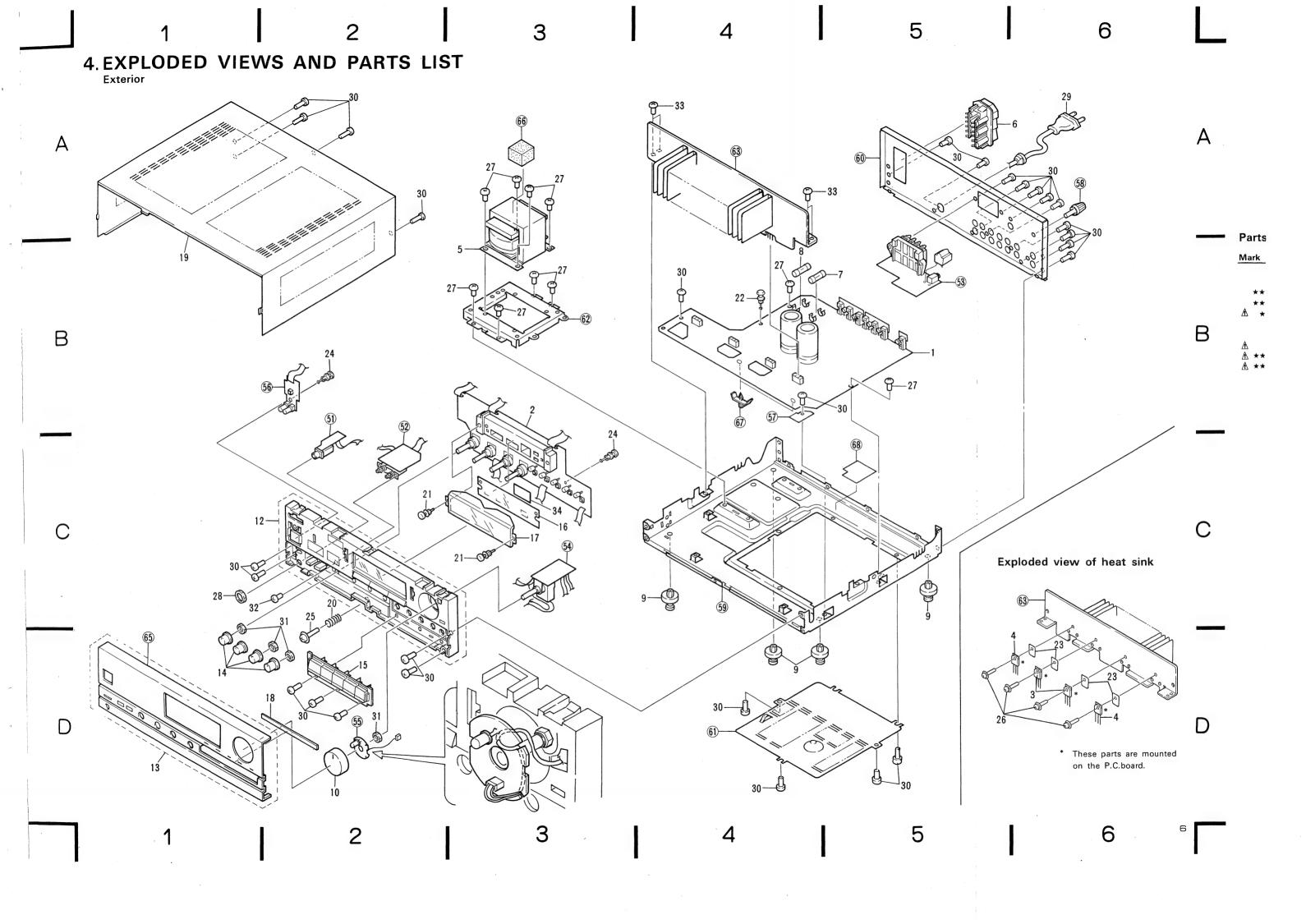
The accessory remote control unit can also be used to operate this component.

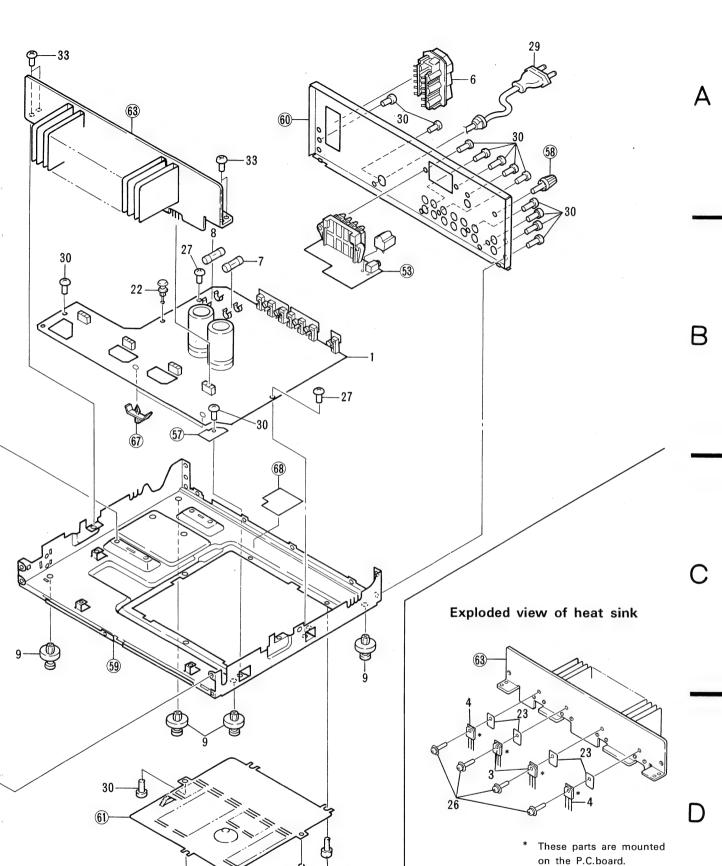
This component features a built-in microcomputer which will recall the last-set positions of the following switches for up to about one week after the power cord is disconnected. As a result, when the power is turned ON again, the previously set positions will be recalled automatically:

- ADPT/FAPE2 switch
- INPUT SELECTOR
- BASS EQUALIZER switch
- POWER ON/STANDBY
- DIRECT CD INPUT switch
- MUTING switch

When the unit is not used for more than a week, the memorized setting positions will be erased, and returned to the following settings:

● POWER switch STANDBY
MUTING switch OFF
• INPUT SELECTOR switches TUNEF
BASS EQUALIZER ON/OFF switch OFF
• ADPT/TAPE2 switch OFF
DIRECT CD INPUT switch OFF





5

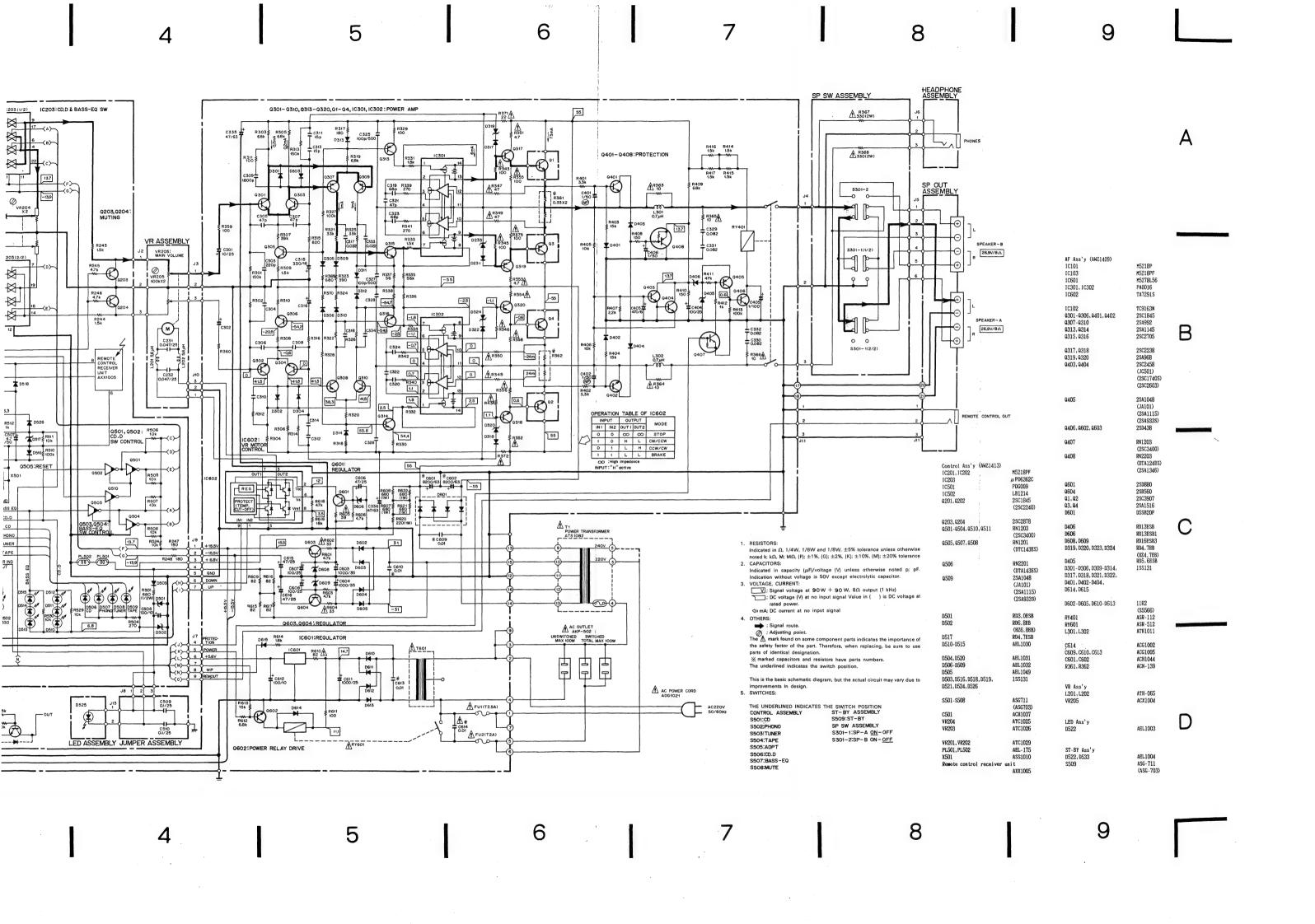
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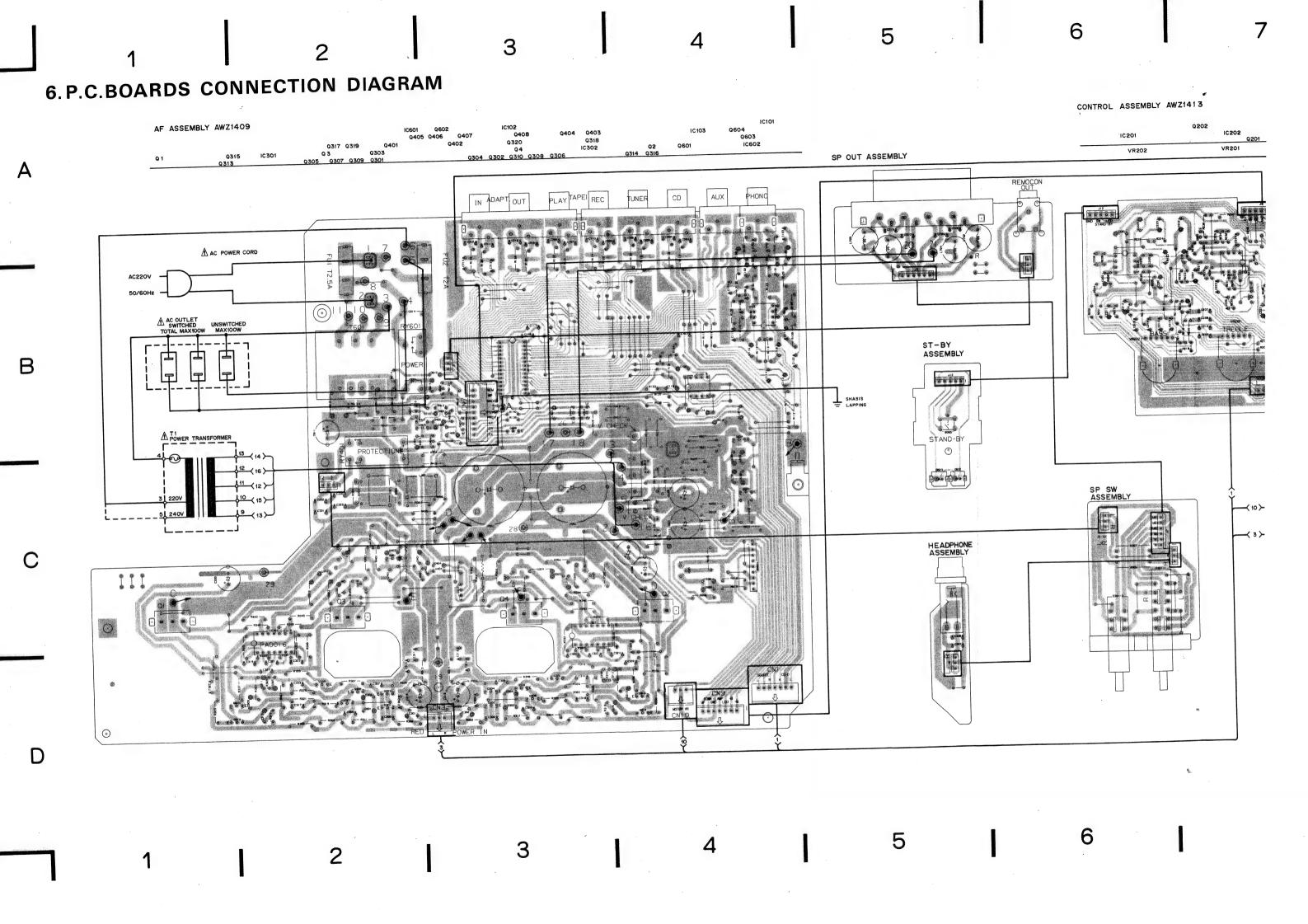
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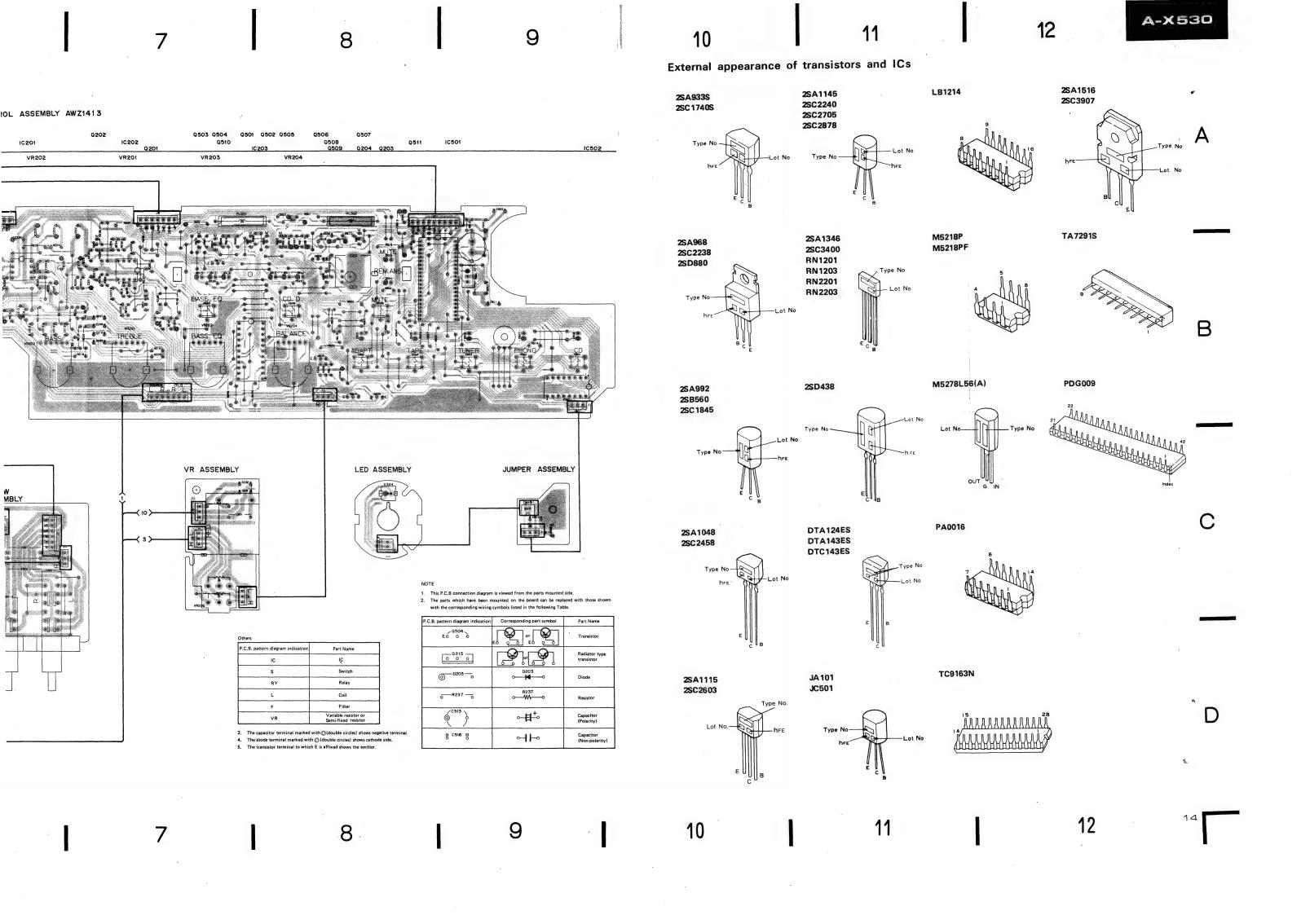
Parts List of Exterior

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1	AWZ1409	AF Main Assembly		28	ABN-065	Nut
	2	AWZ1413	Control Main Assembly	Æ	29	ADG1021	AC Power cord
**	3	2SA1516	Transistor (Q3, Q4)*		30	BBZ30P080	Screw
**	4	2SC3907	Transistor (Q1, Q2)*			FZK	
 ★	5	ATS1082	Power transformer		31	NK90FUC	Nut
			(220V/240V, T1)		32	VMZ30P060	Screw
						FMC	
Λ	6	AKP-502	AC Socket 3P (AC OUTLET)		33	ABA-298	Screw
∧ ★★	7	AEK-017	Fuse (T2A, FU2)		34	AAK1376	Filter
 ★★	8	AEK-403	Fuse (T2.5A, FU1)				
	9	AEP-320	Leg assembly		51		Headphone assembly
	10	AAB1034	Knob (MAIN VOLUME)		52		SP SW assembly
	11				53		SP OUT assembly
					54		VR assembly
	12	AMB1208	Panel base assembly		55		LED assembly
	13	ANB1116	Front panel assembly		00		LLD assembly
	14	AAB1033	Rotary knob (BASS,		56		ST-BY assembly
			TREBLE, BASS-EQ, BALANCE)		57		JUMPER assembly
					58		Terminal (GND)
	15	AAD1161	Function knob		59		Chassis
			(ADAPTOR, TAPE1, TUNER,		60		Rear panel
			CD, PHONO)		00		iteal pallel
	16	AAK1389	Display sheet		61		Bottom plate
	17	AAK1278	Display plate		62		Transformer holder
			- ispitaly pieces		63		Heat sink
	18	AMR1162	Indicator Lens		64		neat sink
	19	ANE1074	Bonnet case		65		
	20	ABH1032	Coil spring		05		Front panel
	21	AEC-384	Nylon rivet		66		Combine
	22	AEC-525	Nylon rivet		67		Cushion rubber
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1471011 11701		68		Spacer
	23	AEC-818	Mica sheet		00		Balire
	24	AMR1066	Plastic rivet				
	25	ABA-252	Screw				
	26	ABA-297	Screw				
	27	ABA1011					
	21	ARA1011	Screw				•

A-X530







7. ELECTRICAL PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "@" are not always kept in stock. Their delivery time may be longer than usual or they may be unavail-
- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.
- * * GENERALLY MOVES FASTER THAN *
- This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J =5%, and K = 10%).

560Ω	56×10^{1}	561	RD1/4PS 5 6 11 J
$47k\Omega$	47×10^{3}	473	RD1/4PS 🗓 🗇 🗓 J
0.5Ω	0R5		RN2H 🛈 🗷 🗊 K
1Ω	010		RSIP 🛛 🗆 🛈 K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

Miscellaneous Parts			Mark	Symbol & Description	Part No.	
P.C	BOA	ARD ASSEMBLIES				
Mar	k	Symbol & Description	Part No.	**	Q313, Q314	2SA1145
				**	Q315, Q316	2SC2705
				**	Q317, Q318	2SC2238
Æ	•	AF main assembly	AWZ1409	**	Q319, Q320	2SA968
	⊙	Control main assembly	AWZ1413	**	Q403, Q404	2SC2458
		VR assembly				(JC501)
		LED assembly				(2SC1740S)
		ST-BY assembly				(2SC2603)
		Jumper assembly		. **	Q405	2SA1048
		Headphone assembly				(JA101)
		SP SW assembly				(2SA1115)
		SP OUT assembly				(2SA933S)
OTI	HERS			**	Q406, Q602, Q603	2SD438
				**	Q407	RN1203
Mar	K	Symbol & Description	Part No.			(2SC3400)
				**	Q408	RN2203
	**	Q3, Q4 Transistor	2SA1516			(DTA124ES)
	**	Q1, Q2 Transistor	2SC3907			(2SA1346)
A	*	T1 Power transformer	ATS1082			,
		(AC220/240V)		**	Q601	2SD880
Æ		AC Socket 3P	AKP-502	**	Q604	2SB560
		(AC OUTLET)		*	D601	D5SB20F
Λ	**	FU2 Fuse (T2A)	AEK-017			
Λ	**	FU1 Fuse (T2.5A)	AEK-403	*	D406	RD13ESB
Æ		AC power cord	ADG1021	*	D606	RD13ESB1
				*	D608, D609	RD16ESB3
$\triangle \odot$	AF m	ain assembly (AWZ1409)		*	D319, D320, D323, D324	RD4.7EB
		NDUTORS				(HZ4.7EB)
Mar	k	Symbol & Description	Part No.	*	D405	RD5.6ESB
				*	D301-D306, D309-D314,	1SS131
	**	IC101	M5218P		D317, D318, D321, D322,	
	**	IC103	M5218PF		D401-D404, D614, D615	
	**	IC601	M5278L56 (A)	*	D602-D605, D610-D613	11E2
	**	IC301, IC302	PA0016			(S5566)
	**	IC602	TA7291S			
			17.17.2010			
	**	IC102	TC9163N			
	**	Q301—Q306, Q401, Q402	2SC1845			
	**	Q307—Q310	2SA992			

RELAYS			Mark	Symbol & Description
Mark	Symbol & Description	Part No.		
** A **	RY401 (PROTECTION) RY601 (POWER)	ASR-112 ASR-512	Δ	R351—R354, R602, R604, R605 R607, R608, R620—R622 R103, R104, R131—R134,
COILS 8	TRANSFORMER			R139—R141, R317, R318, R339—R342, R369, R370.
Mark	Symbol & Description	Part No.		R403-R407, R410-R413,
	L301, L302 AF choke coil	ATH1011		R612-R614, R618, R619 Other resistors
A *	(0.7µH) T601 Power transformer	ATT1015	OTHERS	
	(AC110,120—127/ 220, 240V)		Mark	Symbol & Description
CAPACI	TORS			Pin-jack 6P
Mark	Symbol & Description	Part No.		(ADAPTER IN/OUT,TAPE 1 REC/PLAY, TUNER, CD) Pin-iack 2P (PHONO)

CAPA Mark \triangle C614 (0.01µF/ V) ACG1002 C609, C610, C613 ACG1005 $(0.01 \mu F/ V)$ C601, C602 (8200µF/63V) ACH1044 C325-C328 CCCSL101K500 C311-C314 CCCSL150J50 C103, C104, C107, C108, CCCSL221J50 C303, C304 C305—C308, C321, C322 CCCSL470J50 C319, C320, C323, C324 CCCSL680J50 C401, C402 CEANPO10M50 C405 CEAS010M100 C406 CEAS010M50 C101, C102, C119, C120 CEAS100M25 C612 CEAS101M10 C404, C607, C608 CEAS101M25 C611 CEAS102M25 C603, C604 CEAS102M35 C115, C116 CEAS2R2M50 C105, C106 CEAS470M10 C113, C114, C123, C124 CEAS470M16 C606 CEAS470M25 C403 CEAS471M6 C301, C302 CEYA100M25 C315, C316 CEYA331M16 C335, C336 CEYA470M63 C615, C616 CEYA470M25 C317, C318, C333, C334 CFTXA223J50 C329—C332 CFTXA823J50 C309, C310 CKCYB182K50 C117, C118, C121, C122 CKCYX104M25 C109, C110 CQMA222J50 C111, C112 CQMA882J50

Mark	Symbol & Description	Part No.
	R361, R362 Resistor array	ACN-139
	(0.33ΩX2)	
	R313, R314	RDR1/4PM154J
\triangle	R365, R366, R371, R372,	RD1/4PMFL
	R610	
A	R343—R350, R355—R358,	RD1/4PMF
	R363, R364	

ark	Symbol & Description	Part No.
<u>k</u>	R351—R354, R602, R604, R605	RFA1/4PS 🗆 🗆 🗆 J
	R607, R608, R620—R622 R103, R104, R131—R134, R139—R141, R317, R318, R339—R342, R369, R370, R403—R407, R410—R413, R612—R614, R618, R619	RS1LMF□□□J RD1/8PM□□□J
	Other resistors	RD1/4PM□□□J

AKB—117
AKB-119
AKH-017

Part No.

⊙ Control main assembly (AWZ1413) **SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
**	IC201, IC202	M5218PF
**	IC203	μ PD6362C
**		PDG009
**		LB1214
**	Q201, Q202	2SC1845
		(2SC2240)
**	Q203, Q204	2SC2878
**	Q501—Q504, Q510, Q511	RN1203
		(2SC3400)
**	Q505, Q507, Q508	RN1201
		(DTC143ES)
**	Q506	RN2201
		(DTA143ES)
**	Q509	2SA1048
		(JA101)
		(2SA1115)
		(2SA933S)
*	D501	RD3.0ESB
*	D502	RD6.8EB
		(HZ6.8EB)
*	D517	RD4.7ESB
*	D510—D515	AEL1030
	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
*	D504, D520	AEL1031
*	D506—D509	AEL1032
*	D505	AEL1049
*	D503, D516, D518, D519	1 SS131
	D521, D524, D526	

SWITCHES

** S501—S508 Tact switch ASG-711 (CD/PHONO/TUNER/TAPE/ (ASG-703) ADAPTER/CD. D/BASS-EQ/ MUTE)	Mark	Symbol & Description	Part No.
	**	(CD/PHONO/TUNER/TAPE/ ADAPTER/CD. D/BASS-EQ/	(ASG-703)

19

CAPACITORS

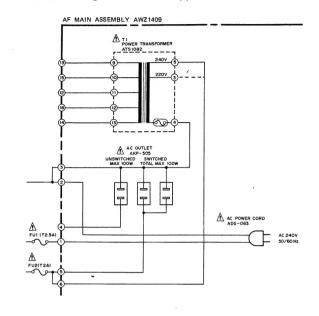
Mark	Symbol & Description	Part No.		
	0701 (47000 F (0.0))	A CU11 0 2 7		
	C501 (47000µF/6.3V)	ACH1037		
	C205, C206	CCCSL330J50		
	C201, C202, C217, C218, C221, C222	CEAS100M25		
	C502, C508	CEAS101M10		
	C211, C212	CEAS2R2M50		
	C507	CEAS4R7M50		
	C219, C220, C229, C230	CEAS470M25		
	C227, C228	CEJA2R2M50		
	C225, C226	CFTXA334J50		
	C223, C224	CFTXA474J50		
	C506	CKCYB102K50		
	C503, C505	CKCYX104M25		
	C207, C208	CQMA122K50		
	C213, C214	CQMA124K50		
	C215, C216	CQMA333K50		
	C209, C210	CQMA472K50		
RESISTO	RS			
Mark	Symbol & Description	Part No.		
*	VR204 10k×2 (BALANCE)	ATC1025		
*	VR203 5k×2 (BASS-EQ)	ATC1026		
*	VR201, VR202 100kx2	ATC1029		
	(BASS, TREBLE)			
•	R501	RD1/2PM681J		
	R243, R244, R247, R248,	RD1/4PM□□□J		
	R504, R522			
	Other resistors	RD1/8PM□□□J		
OTHERS				
Mark	Symbol & Description	Part No.		
	PL501, PL502 Pilot lamp	AEL-175		
	X501 Ceramic oscillator	ASS1010		
	Remote control receiver unit	AXX1005		
VR assembly				
INDUCT	ORS			
Mark	Symbol & Description	Part No.		
	L201, L202 (5.6µH)	ATH-065		
CAPACITORS				
		Part No.		
iviark	Symbol & Description	Part No.		
	C231, C232	CKCYX473M25		
RESISTOR				
Mark	Symbol & Description	Part No.		
*	VR205 100kx2w/Motor (MAIN VOLUME)	ACX1004		

LED assembly

SEMICO	NDUCTOR	
Mark	Symbol & Description	Part No.
*	D525	AEL1003
	assembly INDUCTORS	
Mark	Symbol & Description	Part No.
*	D522, D523	AEL1004
SWITCH	l	
Mark	Symbol & Description	Part No.
**	S509 Tact switch (ST-BY)	ASG-711 (ASG-703)
Jumper CAPACI	assembly TORS	
Mark	Symbol & Description	Part No.
	C509, C510	CKCYX104M25
Headpho OTHER	one assembly	q
Mark	Symbol & Description	Part No.
	Jack (PHONES)	AKN1002
SP SW	assembly	
SWITCH		
Mark	Symbol & Description	Part No.
**	S301 Push switch (SP A/B)	SUL8LXYS
RESISTO	ORS	
Mark	Symbol & Description	Part No.
A	R367, R368	RS2LMF331J
SP OUT	assembly	
Mark	Symbol & Description	Part No.
	Terminal board 8P (SPEAKERS L/R) Mini-jack	AKE-111 AKN-207
	(REMOTE CONTROL OUT)	

8. FOR HB AND SD TYPES

8.1 SCHEMATIC DIAGRAM Schematic diagram for HB type



Line Voltage Selection for HE and HB types

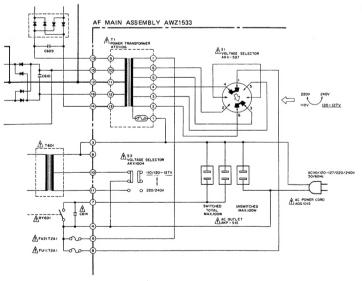
- 1. Disconnect the AC power cord.
- 2. Remove the bonnet case.
- 3. Change the connection wire to transformer (ATS1082) from AF MAIN assembly as follows.

	Terminal No. of transformer
220V	3
240V	5

4. Stick the line voltage label on the rear panel.

Description	Part No.		
220V label	AAX-193		
240V label	AAX-192		

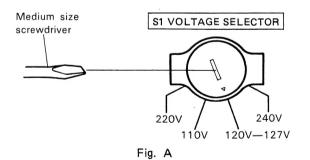
Schematic diagram for SD type



Change of line Voltage for SD type

Be sure to switch both S1 and S2 selector switches.

- 1. Using a medium-size screwdriver, turn the switch S1 to the position of desired voltage (Fig. A).
- 2. Change the position of switch S2 accordingly to the above voltage (Fig. B).



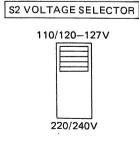


Fig. B

8.2 CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- Parts without part number cannot be supplied.
- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.
 - **★★** GENERALLY MOVES FASTER THAN★

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

• Parts marked by "©" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

CONTRAST OF MISCELLANEOUS PARTS

The A-X530/HB and SD types are the same as the A-X530/HE type with the exception of the following sections.

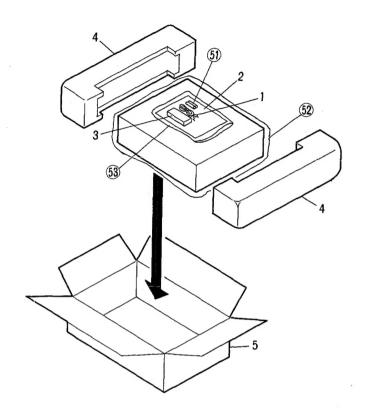
Mark		Symbol & Description		Part No.			
				Symbol & Description A-X530/ HE type		A-X530/ SD type	Remark
A			AC power cord	ADG1021	ADG-063	ADG1015	
<u>∧</u> <u>∧</u>	**	FU2	Fuse (T2A)	AEK-017	AEK-511	AEK-017	
Λ	**	FU1	Fuse (T2.5A)	AEK-403	AEK-512		
Λ	**	FU1	Fuse (T2A)			AEK-017	
A			AC socket 3P (AC OUTLET)	AKP-502	AKP-505	AKP-515	
			Operating instructions (English)		ARB1080	ARB1 080	
			Operating instructions (English/German/French/Italian)	ARE1051			
⚠	*	T1	Power transformer (AC220/240V)	ATS1082	ATS1082		
Æ	*	T1	Power transformer (AC110/120-127/220/240V)			ATS1106	
Λ			AF main assembly*	AWZ1409	AWZ1409	AWZ1533	
À	**	S1	Voltage selector (110/120-127/220/240V)			AKX-507	
Æ	**	S2	Voltage selector (110, 120-127/220, 240V)			AKX1004	

^{*} Marked P.C. board assemblies:

Regard less differences on parts numbers, the P.C. board assemblies for the additional types are identical with the HE type.

A-X530

9. PACKING



Parts List of Packing

Mark No.	Part No.	Description
1	ADE-085	Connection cord
2	ARE1051	Operating instructions
	(HE type)	(English/French/
		German/Itarian)
	ARB1080	Operating instructions
	(HB, SD type)	(English)
3	AXD1024	Remote control unit
4	AHA1069	Pad (Front, Rear)
5	AHD1232	Packing case
51		Datta
52		Battery
53		Packing sheet
53		Catalogue bag